12 Fixes For PAGE_FAULT_IN_NONPAGED_AREA

October 30, 2021

Blue Screens of Death (BSoD) can be very annoying on your Windows computers since they are the virtual omens of digital death or other critical errors. There are over 500 BSoDs shown by a Windows PC and no one can predict when they can show up on your screen.

It can be quite annoying when it shows up on your computer, frequently. We will be talking about what the PAGE_FAULT_IN_NONPAGED_AREA BSoD is and how to prevent it from showing up on your computer, for a considerable amount of time.

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What Is The PAGE_FAULT_IN_NONPAGED_AREA BSoD Error?

The NONPAGED area is the part of RAM memory that is used to run the Windows Operating System (OS) on your computer. The constituents of the CPU memory are exchanged between the RAM and the page file, often. When this data cannot be detected by Windows through the RAM, the PAGE_FAULT_IN_NONPAGED_AREA Blue Screen of Death errors occur.

When you see the blue screen with the stop code PAGE_FAULT_IN_NONPAGED_AREA Invalid memory reference written on it, it means that your system is going through a lot of pressure and an invalid system memory has been used as a reference. This could also signify an incorrect memory address.

The system requests certain data that is stored in your [Random Access Memory](#) (RAM). If this data cannot be detected by the OS a fault is created. This fault is a cover for the system searching for the data in the RAM's paging file.

If this data cannot be found, it is displayed that the missing information is available in a part of the RAM that couldn't be paged out to the hard disk. This data may or may not be recovered.

The methods that follow are not steps to recover this data but to avoid this error in the future. The PAGE_FAULT_IN_NONPAGED_AREA error can occur quite frequently if it shows up once on your computer.

Factors That Cause The PAGE_FAULT_IN_NONPAGED_AREA Blue Screen Of Death

The PAGE_FAULT_IN_NONPAGED_AREA happens on your computer for no good reason and the following are the no good reasons why the Nonpaged area error occurs on your Windows 10 computer.

1. Windows is not able to detect the data that should be present in the nonpaged area.
2. Antiviruses are preventing the OS from detected the data in the nonpaged area.
3. An incorrect Windows service is present on the computer.
4. Wrong driver codes can be detected in the system.
5. Corrupt or faulty Hardware components, especially faulty RAM, can lose the requested data.
6. The system has a corrupted NTFS volume.
7. The memory address is directing the request to freed memory.

Methods To Fix The PAGE_FAULT_IN_NONPAGED_AREA error

These are the 12 different methods that Windows users can use to fix the PAGE_FAULT_IN_NONPAGED_AREA error.

1. **Take a look at your RAM stick(s)**
2. **Troubleshoot the Hardware**
3. **Troubleshoot the BSoD**
4. **Update your Audio and Display Driver software**

5. **Perform a Memory Diagnosis**
6. **Run a CHKDSK scan of your PC**
7. **Perform a System File Check**
8. **Jump back to a Windows Restore Point**
9. **Turn off your Antivirus software**
10. **Disable Automatic Virtual memory management**
11. **Download and install a Windows OS update**
12. **Reset your Windows 10 PC**

See also How to Find Your RAM Speed, Type, and Size on Windows and Mac

Fixing the PAGE_FAULT_IN_NONPAGED_AREA Error

These 13 procedures are what we'll be using to save your Windows 10 PC from the PAGE_FAULT_IN_NONPAGED_AREA bluescreen error.

Take A Look At Your RAM Stick(s)

The CPU memory or RAM plays the biggest role in this issue. It is important to make sure that the RAM is safe inside the CPU cabinet. The RAM sticks can easily get damaged as they are protruding from the motherboard. A broken memory stick cannot be detected by your OS, much less be used for the OS to request data from.



If the RAM is loose, push it in and make sure that they are locked in tightly. If the RAM is damaged, you will have to purchase a new one and insert it into your motherboard. The RAM should be compatible with the slot in the motherboard. We recommend inserting DDR5 RAM models if the motherboard can accommodate them.

Troubleshoot The Hardware

1. Launch the **Windows Settings** application (Windows + I). You can use the Start menu to open it.
2. Go into the **Updates & Security** tile on the Settings home page.
3. Click on the **Troubleshoot** tab, which is placed on the left menu pane and you will see all the troubleshooters, you have used previously.
4. If there are no troubleshooters, click on the **Additional Troubleshooters** link and all the available troubleshooters will appear in the next window.
5. Select the Hardware and Devices option to open the option for running this troubleshooter.
6. Click on the **Run the troubleshooter** button to bring up the troubleshooting window.

You might be asked to choose some options to help the OS find and fix the issue. If a problem is detected, users need not take any measures to fix it. The troubleshooter will fix it on its own. This process takes a while to complete and the problem and the system's response to it will be made automatically.

Troubleshoot The BSoD

1. Open the Settings utility on your Windows 10 PC and follow this path:

Updates & Security > Troubleshoot > Additional Troubleshooters > Blue Screen

2. In the expanded Blue Screen section, select the **Run the troubleshooter** option.

After you choose the errors in the troubleshooter window, the UI will scan the system for errors and fix them even without having to interfere with the troubleshooter. It is recommended to check the event viewer for details about the Page Fault in Nonpaged Area error after this error occurs on your computer.

Update Your Audio And Display Driver Software

1. Launch the **Device Manager** window on your PC. It can be launched when you select Device Manager from the Quick Link menu (Windows + X), run the **devmgmt.msc** command in the Run tool (Windows + R) and open it through the search box on the taskbar.
2. In the Device Manager, locate these two sections –
   1. **Display Adapters**
   2. **Sound, video, and game controllers**

Disk drives
Display adapters
Intel(R) Iris(R) Xe Graphics
NVIDIA GeForce RTX 3070 Laptop GPU
Firmware
Human Interface Devices
Keyboards
Mice and other pointing devices
Monitors
Network adapters
Print queues
Processors
Security devices
Software components
Software devices
Sound, video and game controllers
ASUS Utility
Intel® Smart Sound Technology for Bluetooth® Audio
Intel® Smart Sound Technology for USB Audio
NVIDIA High Definition Audio
NVIDIA Virtual Audio Device (Wave Extensible) (WDM)
Realtek(R) Audio

These are the sections that contain the driver software for the audio and graphics drivers.

3. Expand these sections, one at a time, and right-click on the device driver that you want to update.
4. From the little context menu, choose the **Update driver** option. You can also open the driver properties and click on the Update driver option in the Driver tab. This will open an update wizard.
5. Irrespective of which driver you wish to update, select the **Search automatically for drivers** option in the update wizard.

The latest version of the device drivers will be found by the computer after it is scanned by this update wizard. Users will have to restart their computer so that the OS installs the updated driver software and puts them to use.

Perform A Memory Diagnosis

1. Bring up the **Run utility** on your computer, by searching for it or Press Windows key + R, on your keyboard.
2. When this small dialog box opens, type in **Mdsched** and click on the **Ok** button or press **Enter**. This is the run command for the Windows Memory Diagnostics tool.
3. Alternatively, you can type Memory into the search field and open this tool from the search results.
4. In the Windows Memory Diagnostic tool window, choose **Restart now and check for problems**.

Windows Memory Diagnostic 

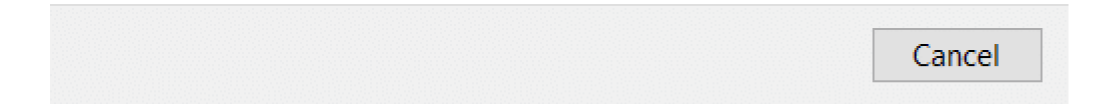


Check your computer for memory problems

Memory problems can cause your computer to lose information or stop working.

→ Restart now and check for problems (recommended)
Save your work and close any open programs before restarting.

→ Check for problems the next time I start my computer



This will trigger a system reboot and a test of your PC will run on your PC. This operation takes a while to end as the entire system and its components are scanned for errors. When you boot up your PC the next time, you will receive the scan report which should include the computer's memory problems.

See also 14 Fixes For Your Device is Missing Important Security and Quality Fixes

Run A CHKDSK Scan Of Your PC

1. Launch the Command Prompt tool with elevated privileges. You have to be an administrator to make important changes on your computer.
2. Enter the CHKDSK script line and execute it by hitting the Enter key.

chkdsk f/ r/ x/

When this command is executed, it will detect issues and will fix the detected issues on your computer, if prompted by a parameter. This process will take some time to scan all the files and repair disk errors. Check if the page fault error persists.

Note: To run Command Prompt as a

Perform A System File Check

1. Open **Command Prompt**, as the System administrator. You just have to find a command prompt shortcut, right-click on it and choose **Run as Administrator**.
2. In the command prompt window, type in the System File Checker (SFC) command and press the **Enter** key to run it.

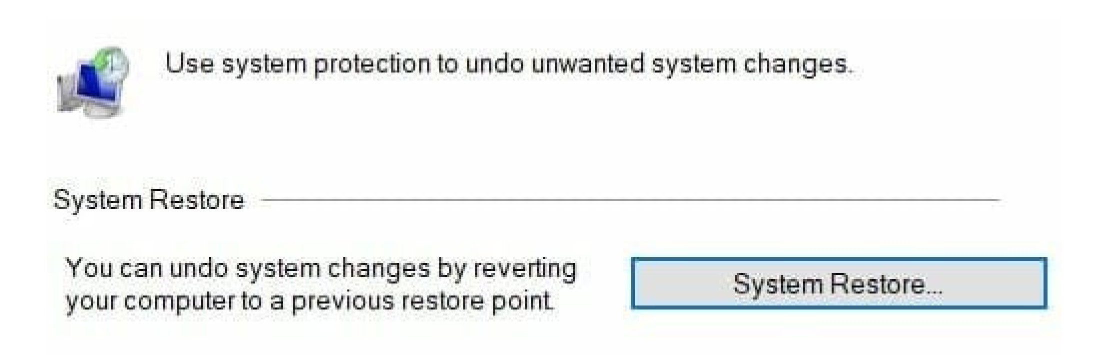
sfc /scannow

This scanner will also check for issues on your computer and fix them, automatically.

If you do not know the difference between the CHKDSK and the SFC scan, the Check Disk scan is used to test a selected hard drive partition, repair damaged system files, and single out corruption. The SFC scans all the system files to find corrupt ones and replaces them with a fresher system file so that the system's functioning is not interrupted.

Jump Back To A Windows Restore Point

1. Type in **restore point** into the search field on your taskbar and then click on the first search result.
2. This will make the System Properties dialog box appear on your screen. In this window, press the **System Restore** button.



3. in the System Restore window's main page, select the **Next button**.
4. You'll see a lot of restore points that you created previously on your computer. Choose a **Restore Point** and click on the **Next** button at the bottom.
5. At the end of the process, click on the **Finish button** to load up a restore point.

Your computer needs to have a previously set restore point for you to be able to go back to. Make sure that your restore points are created when there are no errors on your computer.

Turn Off Your Antivirus software

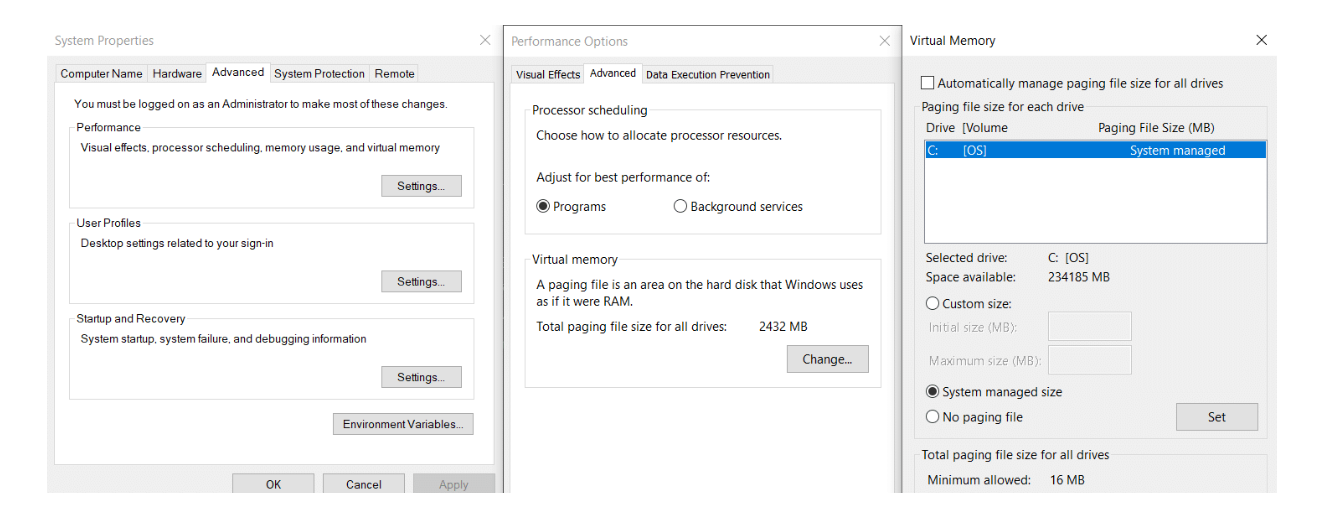
Though anti-virus software is quite useful, it can be a hindrance when they do not let genuine features run on the computer. These programs can hold back important elements of the OS, without which there is a possibility of errors and crashes. If you suspect your third-party antivirus or the Windows Defender to be behind the Non-Paged area error.

Users with third-party antivirus apps can disable them through the antivirus shortcut in the system task tray. If you do not have an antivirus, you will have to turn the Windows Defender off through the Windows Settings.

Disable Automatic Virtual Memory Management

1. Launch the Windows File Explorer window on your system, with the help of the icon on the taskbar or press Windows and E keys together.
2. On the left pane, right-click on the **This PC** options and select **Properties** from the context menu.
3. This will take you to the About page in Settings or the System page in the Control Panel. Irrespective of the window, look for it and click **Advanced system settings**, which is a link on the left or right panes.
4. Go to the **Advanced** tab and click on the **Settings** button in the **Performance** section.
5. Under the Virtual Memory section in the Advanced tab, press the Change button. This will launch the Virtual Memory dialog box.
6. Uncheck the **Automatically manage paging file size for all drives** option and click on the **No paging file** radio button.

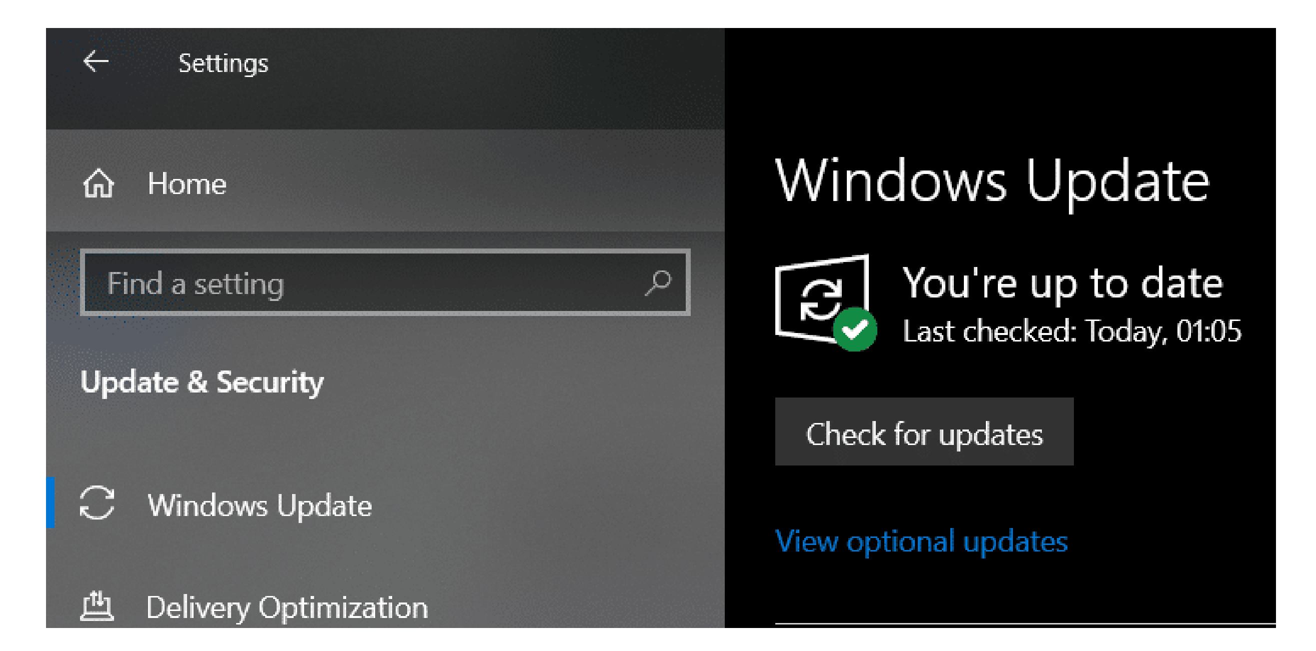
[See also Miracast For Windows: Setup & Troubleshooting Guide]



7. Click on the **Ok** button to save this and close the window.
8. Close all the windows and restart your computer.

Download And Install A Windows Operating System Update

1. Press the Windows and I keys to open the Settings application.
2. Click on the **Updates & Security** option and will be taken to the Windows Update page.
3. Select **Check for updates** to scan the internet for available updates.

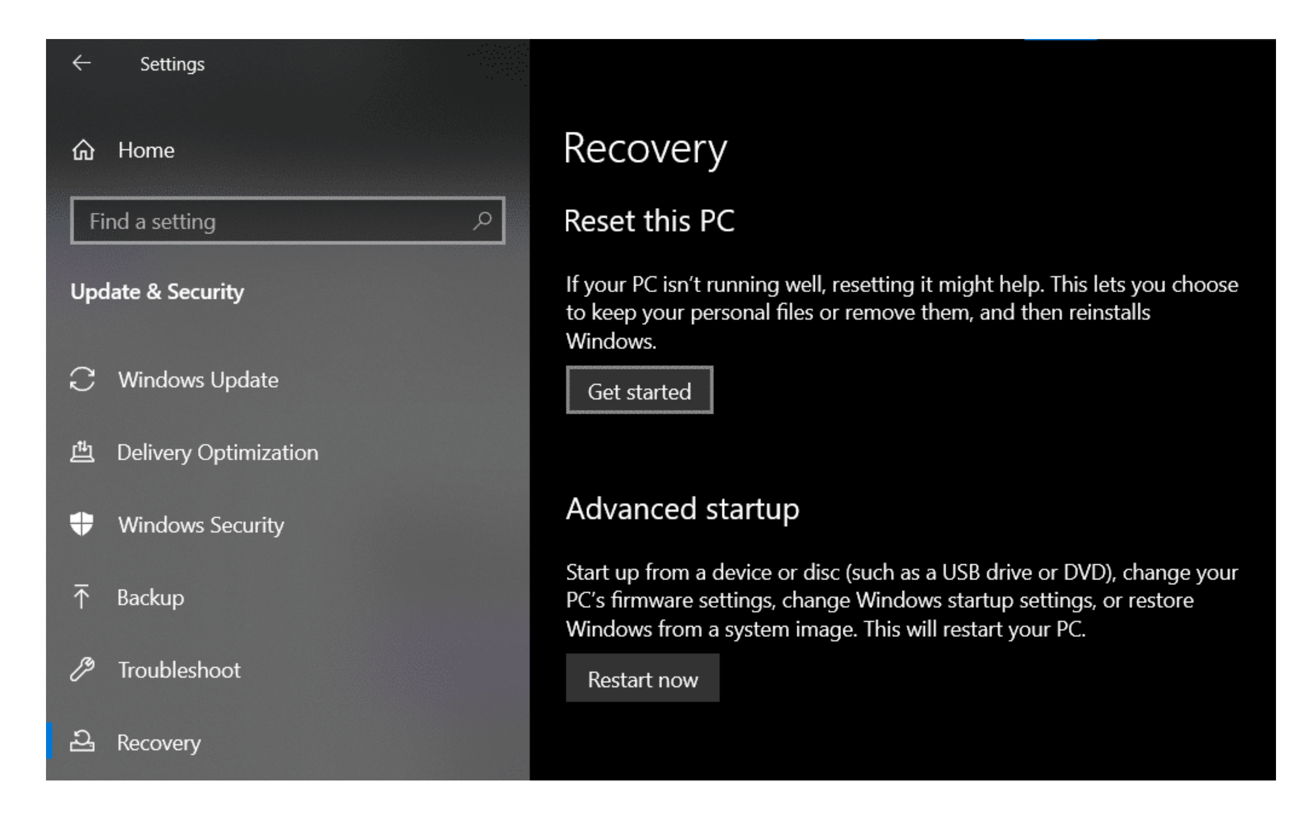


4. If there are pending updates, click on the **Download and Install** option in the same window.
5. Once these updates are downloaded, restart the PC to install these updates.

This procedure is not a guaranteed fix as there may and may not be a solution for the Nonpaged area error in the downloaded or upcoming updates. You can also go back to the previous version of the OS to see if it helps.

Reset Your Windows 10 PC

1. Open the **Start menu** and click on the gear icon on the left panel to open the Windows Settings.
2. Go to the **Updates & Security settings > Recovery tab**.
3. Under the **Reset this PC** section, press the Get Started option.



4. Make your choices between keeping and deleting the contents of your hard disk. In this case, we recommend removing the files.

This process can take up to two hours and we recommend taking backups of your files before you reset your PC.

These are your steps to fix the Page fault in Nonpaged area error on your Windows PC. We hope you are back to using your computer without any further errors. You will not face this error for a long time. Happy Browsing!

FAQs

What causes page fault in nonpaged area?

The Page fault in the Nonpaged area blue screen error is caused by an invalid memory when the OS cannot detect the requested data in the RAM's nonpaged area, faulty hardware, interference of antivirus software, and corrupt hard disk partitions.

How do you fix a page fault in a nonpaged area?

You can troubleshoot the hardware and BSoD, use the Windows Memory Diagnostic scan on your computer, download updates for the audio and graphics card drivers, disable antiviruses, run SFC and CHKDSK scans and make a new replacement for the page file, if you are looking to fix the Page fault in nonpaged area BSoD

Is page fault in nonpaged area dangerous?

The Page fault in Nonpaged area BSoD can be harmful to your computer and it can stop your computer abruptly when it is functioning on a full scale. The Page fault in Nonpaged area can appear on your screen, quite frequently if you see it once on your computer. It has to be fixed when it is noticed for the first time.

What is System_thread_exception_not_handled?

The SYSTEM_THREAD_EXCEPTION_NOT_HANDLED error message means that the Window system's handler couldn't manage the exception which was created by a system

thread. This is one of the Blue Screen errors that can appear on your computer when there are issues with the graphics card or the video drivers.